

Abstract

Methods for manufacturing and using an apparatus for manipulating and analyzing a large number of microscopic samples of a liquid or materials, including cells, in liquid suspension. Parallel through-holes are formed in a platen and loaded with a liquid. Loading may be performed in such a way as to
5 create a gradient, with respect to the position of the through-holes, of the concentration of a particular substance or of another quantity. Mixing of the contents of through-holes may be obtained by bringing filled microwell arrays into contact with each other with registration of individual through-holes.

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